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NOV 12 2018

Docket No.: 50-364

NL-18-1391

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D. C. 20555-0001

Joseph M. Farley Nuclear Plant - Unit 2  
Special Report 2018-002-00, Nonfunctional Radiation Monitor R-29B

Ladies and Gentlemen:

In accordance with the requirements of Joseph M. Farley Nuclear Plant Technical Requirements Manual 13.3.4, the enclosed Special Report 2018-002-00 (Unit 2) is submitted.

This letter contains no NRC commitments. If you have any questions, please contact Gene Surber, Farley Licensing Manager, at 334.814.5448.

Respectfully submitted,

D. R. Madison  
Vice President – Farley

DRM/rgs/cbg

Enclosure: Special Report 2018-002-00

Cc: Regional Administrator, Region II  
NRR Project Manager – Farley Nuclear Plant  
Senior Resident Inspector – Farley Nuclear Plant  
RTYPE: CFA04.054

**Joseph M. Farley Nuclear Plant - Unit 2  
Special Report 2018-002-00, Nonfunctional Radiation Monitor R-29B**

**Enclosure**

**Special Report 2018-002-00**

### **Nonfunctional Radiation Monitor R-29B**

This Special Report is being submitted due to the Unit 2 Plant Vent Stack Noble Gas Activity Monitor (R-29B) not being restored to functional status within the time required by Technical Requirement (TR) 13.3.4 of the Joseph M. Farley Nuclear Plant (FNP) Technical Requirements Manual (TRM). The TR requires that the monitor be restored to functional status within 7 days or submit a Special Report within the following 14 days.

This report outlines the requirements of TR 13.3.4 Condition D, Action D.1 to prepare and submit a report outlining the action taken, the cause of the non-functionality and the plans and schedule for restoring the system to FUNCTIONAL status.

These actions will also be submitted in the next Radioactive Effluent Release Report per the Farley Offsite Dose Calculation Manual (ODCM).

#### **Summary of the Instrument Loss of Function:**

At 0945 on October 23, 2018, with Unit 2 in Mode 1, Radiation Monitor R-29B was declared NON-FUNCTIONAL as part of routine maintenance to perform calibration in accordance with plant procedures. The TR Required Action was entered for R-29B and compensatory measures were established.

#### **Pre-planned Alternate Method of Monitoring:**

R-29C (Plant Vent Stack Particulate, Iodine, and Noble Gas Monitor) has remained FUNCTIONAL.

In the event both Radiation Monitors (R-29B and R-29C) became NON-FUNCTIONAL, the actions of the ODCM (Action 37) would be required. With less than the required minimum channels OPERABLE, effluent releases via this pathway may continue provided grab samples are taken at least once per 8 hours and these samples are analyzed for gross activity within 24 hours.

#### **Cause of the Loss of FUNCTION:**

The initial cause of the loss of function was planned removal from service for calibration. During the calibration of R-29B, a deficiency was identified that prevents the low range pump from starting.

#### **Plans and Schedule for Restoring the Instrumentation Channel to FUNCTIONAL status:**

Replacement parts were expedited and received on November 10, 2018, and calibration is expected to be completed on or before November 16, 2018.